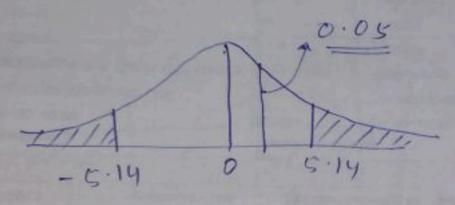
(A) one wa	y ANOVA nyenient alyais of	tatle! to hum	- (fingle merize + in a to	fretz ANOVA) he result He.
Source of Veriation	sum af Square (SS)	DOF	Mean Square MS	F-Ratio
Retween samples	SSB	K-1	MSR = SSB/DOFB	MSR/
Within	SSW	n-K	MSW = SSW/DOFW	MSB/MSW
Total	SST	n-1	1///	1//1

```
(an) ×1
 AM Step-1: Ho! M_= M_2 = M_3
Ha! M_ # M_2 # M_2
d = 0.05
Step-2: Dof Letween = (K-1)
nehere, K= No of groups
               SO, K = 3/1 10 3-1=2/1
 Dof within = (n-K), where n = No of scores
                So,(n-K) = (9-3) = 6/
 Dof Total = (n-1) (0, (9-1) = 8/
  Tatte value (Refer the tatte)
    Dof Letween -> Numerator
    Dof within - a commenter
          50 Table value = 5.14/1
Step-3: X1 ×2 ×3
          2 9X = 25/9
          X1=8/3 ×2=8/5 ×3=9/3
                                 \frac{3}{2} = 2.78
\sum_{x=35}
            = 2.67 = 2.67 = 3
            Endeworte Lux
Step-4: (1) Calculate Sum of Square Total
(SST):-
                    Sum Equare (xi - Gx) of
Sum of Equare Total
(xi-Gx)2
```

Etep-6 Calculate f. Ratio?- $f = M \le n / M \le n = 0.11 / 2.22 = 0.05$ Critical factor of f. value from the table = 5.14

Conclusion: -

Calculated value L'Table value



Hence Ho faile to raject is, thouse to there is no Espaint affrence between All the Variable of three different berief.

(B) Two way ANOVA table:(Two facts Analysis) I takes the following forms

Variance	sum of square (SS)	Dot	Mean Square (MS)	FRATO
Retween Rewe	SSR	(5-1)	MSR= SSR/DOF	MSR MSE
Coleenns	SSe	(2-1)	MSc = SSc/Dose	MSE
Error Reedness	SSE	(C-1)) x	MSE = SSE/DofE	
Total	SST	(8C-1)		

Festilizer	s/ secol	5-7	
	:/ a	6	-
w	6	5	5
×	7	5	4
Y	3	2	3
1 2	8	7	4

Step-1 Calculate Correction factor: Correction faster = T2/N where, T = Seem of all values (6+7+3+8+5+5+3+7+5+4+3+4) = 60 n = RxC = 4×3=12 Cometa facter = (60) 1/12 = 300/ Etep-2 Calculate Sum of Squee (CST)!-SST = (Tatal Sum Square-25 Tatal = 332 64 16 49 332 - 300 = 32/ SCR SCR SCR & SSR enlate 162/3 = 85.33 16 162/3 = 85.33 16 × 9/3= 27 9 3 3 192/3=120: 4 8 SCR {317.4 16 24 SC 202 SC2 100 144

-- -1

Step-4 (i) Calculate SS. between Colsems treatment; = SSc - Comedian factor = 308-300 = 8/ (ii) Calculate SS between for transement: = SSR- Correto feeter = 317.66-300 = 17.66=18/ (iii) Calculate 65 reblual & Erry: = SST - (SSe+SSR) = 35 - (8+18) = 6/ ANOVA Takle Source ef Vaintion SS | Dof MS | F-Ratio (4-1)= 18/3=6 6/ = 6 Setween Row 18 (3-1)= 8/2=4 4/1=4 Datween Colum 108 Rusdialtim 6 TATAS 32 N. n: - Critical value (Refer to table) numerate & denomerate requestivelly as well RI (Chum, Revidual time) en ale remember & denomerates suspectivelly. ie f (2,6) = 5.14/

(20)

Decision: Clemi-Hence foralue Colenlated in terms of between Claum Leistical value of Colsens > 4 25.14 Hence to tails to reject (the precepted) So there is no significant difference between seeds. 7 674.76 Hence Ho is rejected So there is bignificant difference between (Soods) (Feklizen) Rijeated Ho. Accepting 40

The F - Distribution with α = 0.05								
$v_2 \setminus v$	2	3	4	5	6	7	8	9
2	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38
3	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81
4	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00
5	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77
6	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10
7	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68
8	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39
9	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18